

Title (en)

A stator for electric motors with an electrically insulating co-moulded covering

Title (de)

Stator für elektrische Motoren mit einer isolierend geformten Bedeckung

Title (fr)

Stator pour moteurs électriques avec revêtement moulé isolé électriquement

Publication

**EP 0910152 A1 19990421 (EN)**

Application

**EP 98114632 A 19980804**

Priority

IT TO970909 A 19971016

Abstract (en)

A stator for an electric motor comprises pole shoes (10) with radial teeth (11) on which there is co-moulded an electrically insulating coating (12). The coating forms on each tooth (11) a plurality of wall portions (13, 14, 15) perpendicular to the same tooth. The wall portions are radially spaced for defining the winding seats for a plurality of coils arranged in two or more radially spaced crowns (16, 17). The wall portions (14) intermediate two adjacent crowns (16, 17) are provided with insulating pivoted tongues (20) having a passive position, in which they are oriented radially to allow the winding of a crown of coils (16) in the seats delimited outwardly by the intermediate wall portions (14), and an active position, in which the tongues (20) are oriented tangentially and secured to the intermediate wall portion (14) of the adjacent tooth to insulate the lengths of electric wire connecting two adjacent coils belonging to a same crown (17) of windings delimited inwardly by the intermediate wall portions (14). <IMAGE>

IPC 1-7

**H02K 3/52**

IPC 8 full level

**H02K 3/52** (2006.01)

CPC (source: EP)

**H02K 3/522** (2013.01); **H02K 2203/06** (2013.01); **H02K 2203/12** (2013.01)

Citation (search report)

- [A] US 4818911 A 19890404 - TAGUCHI NORIKAZU [JP], et al
- [A] DE 3227400 A1 19840126 - MIELE & CIE [DE]
- [A] US 4808872 A 19890228 - LUND EGON [DK], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 493 (E - 1606) 14 September 1994 (1994-09-14)
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 511 (E - 1432) 14 September 1993 (1993-09-14)
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 261 (E - 1369) 21 May 1993 (1993-05-21)
- [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 493 (E - 1606) 14 September 1994 (1994-09-14)

Cited by

US11909287B2; EP1028513A3; FR2814295A1; CN106787285A; EP1387464A1; US7340820B2; US6838804B2; WO0186779A1; KR20200017931A; CN112567600A; US2021320547A1; EP3836363A4; WO2024058564A1

Designated contracting state (EPC)

CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0910152 A1 19990421**; **EP 0910152 B1 20010919**; DE 69801733 D1 20011025; DE 69801733 T2 20020704; ES 2163224 T3 20020116; IT 1296730 B1 19990715; IT TO970909 A1 19990416

DOCDB simple family (application)

**EP 98114632 A 19980804**; DE 69801733 T 19980804; ES 98114632 T 19980804; IT TO970909 A 19971016